## **CLAIMS**

## What is claimed:

1	1. A method for routing network traffic, comprising:
2	receiving the network traffic;
3	determining a destination for the network traffic;
4	obtaining geographic information on one of a source or the destination associated
5	with the network traffic from a map of the network, the map being produced as a result of:
6	determining a route through the network which includes one of the destination
7	or source;
8	deriving a geographic location of any intermediate hosts contained within the
9	route through the network;
10	analyzing the route and the geographic locations of any intermediate hosts;
11	determining the geographic location of the source or destination; and
12	storing the geographic location in the map; and
13	directing the network traffic to a desired destination based on the geographic location
14	of the source or destination.

1 2. The method as set forth in claim 1, wherein receiving the network traffic comprises receiving a domain name service inquiry.

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The method as set forth in claim 1, wherein the network traffic comprises a 3. 1 domain name service inquiry and wherein directing the network traffic comprises resolving 2 the domain service inquiry by selecting the desired destination based on the geographic 3 location from a plurality of destinations. 4 The method as set forth in claim 1, wherein receiving the network traffic 4. 1 comprises receiving a request at a host server. 2 The method as set forth in claim 1, wherein the network traffic comprises a 5. 1 request, the desired destination comprises a desired server, and wherein directing the 2 network traffic comprises directing the request to the desired server based on the geographic 3 location. 4 The method as set forth in claim 1, wherein directing the network traffic to the 6. 1 desired destination comprises selecting a route with a shortest distance to the desired 2 destination. 3 The method as set forth in claim 1, wherein directing the network traffic to the 7. 1 desired destination comprises selecting a route to the desired destination having the shortest 2 latency time. 3 The method as set forth in claim 1, wherein directing the network traffic to the

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2	desired destination comprises selecting a route having the most available bandwidth.
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- 9. The method as set forth in claim 1, wherein directing the network traffic to the desired destination comprises selecting the desired destination based on its load.
- 1 10. The method as set forth in claim 1, wherein the geographic location comprises
- 2 the geographic location of the source and directing the network traffic to the desired
- 3 destination comprises selecting the desired destination because it has content associated with
- 4 the geographic location.
- 1 11. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting the desired destination based on a connection speed
- 3 associated with the source.
- 1 12. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting the desired destination bandwidth available at the
- 3 desired destination.
- 1 13. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting the desired destination based on a connection speed
- 3 associated with the source and bandwidth available at the desired destination.

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1 14. The method as set forth in claim 1, wherein directing the network traffic 2 comprises selecting a route based on interconnection speeds within the network. 1 15. The method as set forth in claim 1, further comprising analyzing the network. The method as set forth in claim 15, wherein analyzing comprises analyzing 1 16. 2 interconnections between nodes in the network. 17. The method as set forth in claim 15, wherein analyzing comprises analyzing 1 2 nodes within the network. 1 18. The method as set forth in claim 15, wherein analyzing comprises modeling 2 behavior of the network. The method as set forth in claim 18, wherein modeling comprises 1 19. approximating the behavior at nodes. 2 20. The method as set forth in claim 18, wherein modeling comprises simplifying 1 the map of the network by combining nodes in traffic routes. 2 21. The method as set forth in claim 1, wherein obtaining the geographic 1 information comprises generating the map of the network. 2

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The method as set forth in claim 1, wherein obtaining the geographic

1	22. The method as set forth in claim 1, wherein obtaining the geographic
2	information comprises querying a system for the geographic information and receiving a
3	response from the system with the geographic information.
1	23. The method as set forth in claim 1, wherein the network comprises the Interne
2	and the network traffic comprises packets.
1	24. A method for routing network traffic, comprising:
2	receiving the network traffic;
3	determining a destination for the network traffic;
4	obtaining intelligence on the network from a map of the network, the map being
5	produced as a result of:
6	determining at least one route through the network which includes the
7	destination;
8	identifying any intermediate hosts contained within the route between a source
9	of the network traffic and the destination;
10	analyzing interconnections between nodes in the network; and
11	storing results of the analyzing in the map; and
12	directing the network traffic to a desired destination based on the intelligence on the
13	network stored in the map.

The method as set forth in claim 24, wherein the intelligence includes a 25.

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geographic location of the destination. 1 The method as set forth in claim 24, wherein intelligence includes a 26. 1 geographic location of the source. 2 The method as set forth in claim 24 wherein intelligence includes a connection 27. 1 speed associated with the source. 2 The method as set forth in claim 24 wherein intelligence includes bandwidth 1 28 available at the destination. 2 The method as set forth in claim 24 wherein intelligence includes bandwidth 29 1 available at the destination and a connection speed associated with the source. 2 The method as set forth in claim 24 wherein the intelligence includes a latency 30 1 time associated with the destination. 2 The method as set forth in claim 24, wherein the intelligence includes 31. 1 information on loads at different destinations. 2

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